DZHABUA, Sh.A.

CHURAYAN, A.L.; NAPETVARIDZE, Sh.G.; DZHABUA, Sh.A.

Effect of earthquakes on buildings. Trudy Inst. stroi. dela
AN Gruz. SSR 3:113-149 '51.   (MLRA 9:10)

(Earthquakes and building)

DZHABUA, Sh.A.; NAPETVARIDZE, Sh.G.; CHURAYAN, A.L.

[Album of details of earthquake-proof construction elements for apartment houses and public buildings] Al'bom detaley seismostoikikh kostruktsiy dlia zhilykh i grazhdanskikh zdanii. Razrahotali: Sh.A. Dzhabua, Sh.G.Napetvaridze, A.L.Churaian. Tbilisi, 1952. 33 p.

(MLRA 9:9)

1. Akademiya nauk Gruzinskoy SSR, Tiflis. Institut stroitel'nogo dela.

(Earthquakes and building)

DZHABUA   SH.

CHURAYAN, A.; DZHABUA, Sh.; ZAVRIYEV, K.S., professor, redaktor; DZHAPA-
RIDZE, N.A., tekhnicheskiy redaktor.

[Some characteristics of axisymmetric buildings] Nekotorye osobennosti
tsentricheskikh zdanii. Izd. 2-e. Tbilisi, Izd-vo Akademii nauk Gru-
zinskoi SSR, 1954. 58 p. [Microfilm]   (MLRA 7:11)

1. Deystvitel'nyy chlen Akademii nauk Gruzinskoy SSR (for Zavriyev)
        (Structures, Theory of)

CHURAYAN, A.L.; DZHABUA, Sh.A.; NAPETVARIDZE, Sh.G.; LOMADZE, D.R.

Basic principles of designing earthquade-resistant buildings of
rigid type. Trudy Inst.stroi.dela AN Gruz.SSR 5:101-111 '55.

(MLRA 9:8)

(Earthquakes and building)

CHURAYAN, A.L.; DZHABUA, Sh.

Foundations of earthquake resistant buildings. Trudy Inst.stroi.dela
AN Gruz.SSR 5:113-122 '55.   (MLRA 9:8)
            (Foundations) (Earthquakes and building)

DZHABUA SH.A.

CHURAYAN, A.L., kandidat tekhnicheskikh nauk; DZHABUA, Sh.A.

Precast reinforced concrete floors for antiseismic construction.
Bet. i zhel.-bet. no.8:282-287 N '55.   (MLRA 9:1)

(Floors, Concrete) (Earthquakes and building)

DZHABUA,Sh.a., inzhener; CHUBAYAN,A.L., inzhener

Precast reinforced concrete antiseismic chords. Stroi. prom.
33 no.7:29-32 Jl '55.   (MIRA 8:9)
                    (Earthquakes and building)

CHURAYAN, A.L., kandidat tekhnicheskikh nauk; DZHABUA, Sh.A., inzhener.

Large-sized block foundations and walls for buildings in earthquake
areas. Stroi.prom. 33 no.12:26-30 D '55.   (MLRA 9:3)
        (Building blocks) (Earthquakes and building)

DZHABUA, SH. A.

DZHABUA, SH. A. "Some Problems of Using Prefabricated Reinforced-Concrete Structures in Earthquake Regions." Published by the Acad Sci Georgian SSR. GUUZ. Min Railways. Tbilisi Inst of Railroad Transport Engineers imeni V. I. Lenin. Tbilisi, 1956. Dissertation for the Degree of Candidate in Technical Science)

So: Knizhnaya Letopis', No. 19, 1956.

DZHABUA Sh.A.

BYKHOVSKIY, V.A.; DZHABUA, Sh.A.; DUZINKEVICH, S.Yu.; CHURAYAN, A.L.

New "Standards and regulations for building in seismic regions."
Strol. prom. 35 no.12:30-33 D '57.   (MIRA 11:1)
                     (Earthquakes and building)

DZHABUA, Sh. A.

3(10)   PHASE I BOOK EXPLOITATION   SOV/3034

Akademiya nauk SSSR. Sovet po seysmologii

Byulleten'; Krasnopolyanskoye zemletryaseniye, 1955 g., No.5 (Bulletin;
    Krasnaya Polyana Earthquake, 1955, No.5) Moscow, 1958. 62 p. 1,200
    copies printed.

Resp. Ed.: S.V. Medvedev, Doctor of Technical Sciences; Ed. of Publ.
    House: N.V. Shebalin.

PURPOSE: This booklet is intended for scientists working in the field of
    geophysics and seismology.

COVERAGE; This bulletin contains three studies of the Krasnaya Polyana
    earthquake which occurred on December 21-27, 1955. The studies include
    data gathered by the expedition organized by Ye.F. Savarenskiy, Chairman
    of the Committee on Seismology of the Academy of Sciences, USSR, in
    January-February 1956. The members of the expedition included A.Z. Kats
    of the Geophysical Institute AN SSSR; A.D. Tskhakaya of the Geophysical
    Institute of the Academy of Sciences of the Gruzinskaya SSR; and
    Sh.A. Dzhabua, A.L. Churayan, and A.N. Safaryan of the Building Institute

Card 1/2

SOV/169-59-5-4464

Translation from: Referativnyy zhurnal, Geofizika, 1959, Nr 5, p 27 (USSR)

AUTHORS: Dzhabua, Sh.A., Kats, A.Z., Safaryan, A.N., Tskhakaya, A.D., Churayan, A.L.

TITLE: The Earthquake of Krasnaya Polyana of December 21 - 27, 1955, and Its Aftereffects

PERIODICAL: Byul. Soveta po seysmol. AS USSR, 1958, Nr 5, pp 3 - 34

ABSTRACT: In January - February 1956, the authors of the article in question led the study of the aftereffects of two earthquakes which took place in December 21 - 27, 1955. The expedition inspected 18 populated localities, among them Krasnaya Polyana, Adler, Sochi, Gagra, Khosta, Matsesta. The results of the inspection of damaged buildings and structures in the various localities are cited and an evaluation of intensity of the earth-quake is given. On the basis of the instrumental records of the seismic stations and the facts obtained by macroseismic observations, the epicenter zone of the earthquake of December
Card 1/2 21 - 27, 1955, occurred in the region of Krasnaya Polyana. The

SOV/169-59-5-4464

The Earthquake of Krasnaya Polyana of December 21 - 27, 1955, and Its After-effects

power of the earthquake in the epicenter is seven marks. With increasing distance from the epicenter, the power rapidly decreases that testifies the shallow location of the focus. The macroseismic region of the earthquake extends from Gagra to Lazarevskaya along the seacoast and to Kurdzhinovo in the Southern Caucasus. The macroseismic radius amounts to 65 - 75 km when assuming as epicenter Krasnaya Polyana. The influence of the characteristics of the ground and of the relief on the force of shock is studied and brief information is given on the geology and on the seismostatistics of the region.

N.A. Vvedenskaya

Card 2/2

ZNACHKO-YAVORSKIY, I.L.; DZHABUA, Sh.A., red.; KAKABADZE, Dzh.,
    red.izd-va; DZHAPARIDZE, N.A., tekhred.

[E.G.Cheliev, inventor of the artificial Roman cement]
E.G.Cheliev - izobretatel' iskusstvennogo romantsementa.
Tbilisi, Izd-vo Akad.nauk Gruzinskoi SSR, 1959. 18 p.
                                              (MIRA 13:7)
        (Cheliev, Egor Gerasimovich, 1771-1839)

NASONOV, V.N.; BYKHOVSKIY, V.A.; DZHABUA, Sh.A.; DUZINKEVICH, S.Yu.;
    KORCHINSKIY, I.L.; POLYAKOV, S.V. ; STEPANYAN, V.A.

Ways of lowering construction costs of industrial buildings to be
erected in seismic regions. Prom.stroi._ 37 no.8:20-23 Ag '59.
                                                    (MIRA 12:11)
    (Construction industry--Costs)   (Earthquakes and building)

DZHABUA, Sh.A.; CHURAYAN, A.L.; LORDKIPANIDZE, R.S., red.; SARKISYAN,
L.N., red.izd-va; TODUA, A.R., tekhred.

[Reasons for changes in some requirements in "Building norms
and regulations for seismic regions."] Obosnovanie izmenenii
nekotorykh trebovanii "Norm i pravil stroitel'stva v seismi-
cheskikh raionakh." Tbilisi, Izd-vo Akad.nauk Gruzinskoi SSR,
1960. 49 p.   (MIRA 14:1)
        (Earthquakes and building)

CHURAYAN, A.L.; DUZINKEVICH, S.Yu.; DZHABUA, Sh.A.

Methods for sealing joints of precast reinforced concrete
ceilings in seismic regions. Prom.stroi. 8 no.7:26-31
'60.   (MIRA 13:7)
        (Earthquakes and building) (Ceilings)

CHURAYAN, Artemiy Luk'yanovich, kand. tekhn. nauk; DZHABUA, Shalva Andreye-
vich; DUZINKEVICH, S.Yu., inzh., red.; BEGAK, G.A., red. izd-va;
IGNAT'YEV, V.A., tekhn. red.

[Designs and units for large-panel buildings in earthquake districts]
Konstruktivnye skhemy i uzly krupnopanel'nykh zdanii dlia seismiche-
skikh raionov. Pod red. S.IU.Duzinkevicha. Moskva, Gos. izd-vo lit-ry
po stroit., arkhit. i stroit. materialam, 1961. 238 p.

(MIRA 14:7)

(Earthquakes and building)

CHURAYAN, A., kand.tekhn.nauk; DZHABUA, Sh., kand.tekhh.nauk

Earthquakeproof buildings with a nonrigid first story.   Zhil.
stroi.   no.1:14-15   '62.   (MIRA 16:1)
                        (Earthquakes and building)

CHURAYAN, A., kand. tekhn. nauk; DZHABUA, Sh., kand. tekhn. nauk; KOCHESHKOV, V., inzh.; MAL'TSEV, P., inzh.

Sealed joints of elements of earthquake-proof large-panel buildings. Zhil. stroi. no.12:20-21 '62.

(MIRA 16:1)

(Earthquakes and building)
(Building—Details)

USSR/Farm Animals. - Small Horned Stock   Q-3

Abs Jour : Ref Zhur - Biol., No 6, 1958, No 26168

Author   : Dzhedrenov S.N.
Inst   : Not Given
Title   : Comparative Results of Different Timing of Lambings of the
            Kazakh Fine-wool Sheep (Sravnitel'nyye rezultaty razlichnykh
            srokov okota kazakhskikh tonkorunnykh ovets)

Orig Pub : Tr. Alma-Atinsk. zoovet. in-ta, 1956, 9, No 42-47

Abstract : The author reports on the experiments conducted with a view
            to determine the most effective timing of the lambing for
            the fine-wool sheep in the south-east Kazakhstan. The experi-
            mentation was carried out on the lambs of the Kazakh Fine-
            wool breed (1,203 herds) born at different periods of winter
            and spring). The average live weight at weaning (4-5 months)
            of winter young rams was 2.9 kg. and that of young ewes 2.6 kg.
            higher than that of spring ones. At 7-8 months of age, the
            average live weight of lambs of the winter lambing was higher
            in young rams by 12.2 kg. (35%), and in young ewes by 8.9 kg.
Card   : 1/2

37

DZHADRANOV, S.N., assistent

Comparative results of various lambing times in Kazakh fine-wool
sheep. Trudy AZVI 9:42-47 '56.   (MIRA 15:4)

1. Iz kafedry melkogo zhivotnovodstva (zav. kafedroy - chlen-
korrespondent AN KazSSR, zasluzhennyy deyatel' nauki, doktor
prof. V.A.Bal'mont) Alma-Atinskogo zooveterinarnogo instituta.
                    (Kazakhstan—Sheep)

DZHADYK, V.K.

Incited by Nikol'ski, the author completes own and Timan's investigations
(Doklady Akad.Nauk 75, 499-501; 78, 17-20; 77, 969-972) by some new results.
On the interval [-1,+1] two classes of functions are considered: 1. Lipα
- class of those functions for which $|f(x+h)-f(x)| \leqslant Ah^\alpha$, $h > 0$, $0 < \alpha < 1$,
A - constant and 2. Z - class of those functions for which
$|f(x+h)-2f(x)+f(x-h)| \leqslant Ah$.
The following principal theorems are proved:
1. In order that a function $f(x)$ being defined on [-1,+1] possesses a r-th

derivative $f^{(r)}(x)$ belonging to the class Lipα it is necessary and sufficient
that for every integer n a polynomial $P_n(x)$ of at most n-th degree can be

determined such that for all $x \in [-1,+1]$ the inequation

(1) $$|f(x) - P_n(x)| \leqslant \frac{c}{n^{r+\alpha}} \left[(1-x^2)^{\frac{r+\alpha}{2}} + \frac{1}{n^{r+\alpha}} \right]$$

is satisfied. Here c is a constant not depending on x and n.
2. In order that under the same assumptions $f^{(r)}(x)$ belongs to Z, the
satisfaction of (1) with $\alpha = 1$ is sufficient.

KUTATELADZE, K.S., doktor tekhn.nauk; TANDILOVA, K.B., cand.tekhn.nauk;
    SOSELIYA, L.D., inzh.; DZHADZHANASHVILI, O.S., inzh.; CHRDILELI,
    O.G., inzh.

    Increasing the activity of clinkers. TSement 30 no. 2:7-8
    Mr-Ap '64.   (MIRA 17:5)

    1. Gosudarstvennyy nauchno-issledovatel'skiy institut stroitel'-
    nykh materialov, Tbilisi, i Rustavskiy tsementnyy zavod.

PKHALADZE, G.M., prof.; MACHAVARIANI, S.N., dotsent; TSINTSADZE, A.N.;
     MAGRADZE, K.G., dotsent; POCHKHUA, P.E.; CHOCHUA, D.V., kand.
     med. nauk; KOTARIYA, V.G., kand. med. nauk; KADAGIDZE, K.I.,
     kand. med. nauk; GURABANIDZE, T.A., kand. med. nauk; PKHAKADZE,
     A.S., kand. med. nauk; AMIRIDZE, M.V., kand. med. nauk; KAVTARADZE,
     V.A., kand. med. nauk; KUTALADZE, L.A., kand. med. nauk; TSAGARELI,
     G.G., kand. med. nauk, [deceased]; KENCHADZE, I., kand. med. nauk;
     ABASHIDZE, N.G., kand. med. nauk; KHMALADZE, T.I., kand. med. nauk;
     DZHADZHANIDZE, D.V., kand. med. nauk

Effectiveness of the treatment of infectious syphilis (stage I
and II) with bicillin-1 and bicillin-3. Vest. derm. i ven.
no.1:56-61 '65.   (MIRA 18:10)

1. Tbilisskiy nauchno-issledovatel'skiy kozhno-venerologicheskiy
institut (dir.- dotsent S.N. Machavariani) i kafedra kozhno-
venericheskikh bolezney (zav.- prof. G.M. Pkhaladze) Tbilisskogo
instituta usovershenstvovaniya vrachey.

DZHAFAR, S.

Tomorrow we shall show the same solidarity with the Algerian
people as we did yesterday. Vsem. prof. dvizh no.8/9:12-16
Ag-S '62.   (MIRA 15:10)
        (Trade unions)   (Algeria—Politics and government)

TUTAYUK, V.Kh.; DZHAFARLI, P.M.

Anatomic structure of the leaves of various forms of the oriental
oak (Quercus macranthera Fisch et Mey). Dokl. AN Azerb. SSR 18
no.7:53-57 '62.   (MIRA 17:2)

TUTAYUK, V.Kh.; DZHAFARLI, F.M.

Anatomical structure of the leaves of various forms of oriental
oak (Q. macranthera F et M.). Izv.AN Azerb.SSR. Ser.biol. i
med.nauk no.4:9-17 '63.   (MIRA 17:4)

32443

16,4100

S/044/61/000/010/006/051
C111/C222

AUTHOR: Dzhafarli, G.A.

TITLE: On the interpolation of entire periodic functions

PERIODICAL: Referativnyy zhurnal. Matematika, no. 10, 1961, 9 - 10,
abstract 10 B 38. ("Tr. Azerb. gos. ped. in-ta", 1960, 12,
123-131)

TEXT: Let $f(z)$ be an entire periodic function with the period 2π

$$f(z) = \sum_{m=-n}^{n} \frac{\prod_{\substack{k=-n \\ (m \neq k)}}^{n} \sin \frac{z-a_k}{2}}{\prod_{\substack{k=-n \\ (m \neq k)}}^{n} \sin \frac{a_m-a_k}{2}} \cdot \frac{f(a_m)}{\sin \frac{z-a_m}{2}} + R_n(z)$$

where a_m $(m = 0, \pm 1, \pm 2, \ldots)$ are knots of interpolation ; let

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32443

On the interpolation of entire   ...

S/044/61/000/010/006/051
C111/C222

$\text{Im}(a_m) = \lg \mathcal{G}_m$, where $\lim\limits_{m\to\infty} \mathcal{G}_m = \infty$, $\sum \frac{1}{\mathcal{G}_m} < \infty$; if $M^+(\lg r)$ is

the maximum of the amount of $f(z)$ on the straight lines $y = \pm \lg r$ and
if

$$\lim_{n\to\infty}\left\{ \lg M^{\pm}\left[\lg(2\mathcal{G}_n +)\right] - 2(\mathcal{G}_n + \mathcal{G}) \int_{\mathcal{S}_0}^{\mathcal{S}_n} \frac{n(t)\,dt}{(\mathcal{G}+t)(2\mathcal{G}_n + \mathcal{G} - t)} \right\} = -\infty$$

holds for every $\mathcal{G} > 0$, where $n(r)$ is the density function of the
sequence of knots then $\lim\limits_{n\to\infty} R_n(z) = 0$ holds uniformly for $|x| \le \pi$,
$|y| \le \lg r$; the theorem is proved according to the method due to M.V.
Keldysh and I.I. Ibraginov. The author uses the theorem of I.I.
Ibragimov on the convergence of the trigonometric interpolation process
for the case of entire functions of finite order and the normal type with
the period 2π .
[Abstracter's note: Complete translation.]
Card 2/2

DZHAFARLI, G.M.

Multiple orthogonal sets of functions complete with respect to
the operation of evolution. Izv.AN Azerb.SSR.Ser.fiz.-mat.i tekh.
nauk no.6:11-23 '61.   (MIRA 15:4)
                    (Functions, Orthogonal)

DZHAFARLI, G.M.

Convergence of Fourier series in a class of orthonormalized
multiplicative systems.   Izv. AN Azerb.SSR. Ser. fiz.-mat.
i tekh. nauk no.4:17-36 '62.   (MIRA 16:2)
                        (Functions, Orthogonal)
                        (Fourier series)

VILENKIN, N.Ya.; AGAYEV, G.N.; DZHAFARLI, G.M.

Theory of multiplicative orthonormalized systems of functions.
Dokl. AN Azerb. SSR 18 no.9:3-7 '62.   (MIRA 17:1)

1. Institut matematiki i mekhaniki AN AzerbSSR. Predstavleno
akademikom AN Azerbaydzhanskoy SSR Z.I. Khalilovym.

AGAYEV, G.N.; DZHAFARLI, G.M.

A class of multiplicative orthonomalized systems of functions.
Izv. AN Azerb. SSR. Ser. fiz.-mat. i tekh. nauk no.2:27-36 '63.

DZHAFARLI, M. A., Candidate Phys-Math Sci (diss) -- "Marginal problems for

quasilinear elliptic equations". Baku, 1959, published by the Acad Sci Azerb

SSR. 12 pp (Acad Sci Azerb SSR, Inst of Phys and Math), 150 copies (KL, No 24,

1959, 125)

DZHAFARLI, M.A.

On a boundary problem for some quasi-biharmonic functions [in
Azerbaijani with summary in Russian]. Izv. AN Azerb. SSR. Ser. fiz.-
tekh. i khim. nauk no.1:27-23 '59.   (MIRA 12:6)
                         (Harmonic functions)

DZHAFARLI, M.A.

Solution of the first boundary problem for quasilinear
elliptic equations [in Azerbaijani with summary in Russian].
Izv. AN Azerb. SSR. Ser. fiz. tekh. i khim. nauk no.2:13-28
'59.   (MIRA 12:8)
        (Differential equations)

89557

S/044/60/000/008/029/035
C111/C222

/6.4600

AUTHOR: Dzhafarly, M.A.

TITLE: Positivity and positive definiteness of the biharmonic

operator Δ^2 in the complex Hilbert space

PERIODICAL: Referativnyy zhurnal. Matematika, no.8, 1960, 151,
abstract no. 9170. Tr. In-ta fiz. i matem. AN Azerb SSR,
1959, 8, 134-145

TEXT: The author proves that the operator Δ^2 is positive and positive
definite in the complex Hilbert space. The inequality of Friedrichs

$$\left(\int_{\Omega} \sum_{i=1}^{n} |\partial u / \partial x_i|^2 \geqslant \gamma \int_{\Omega} |u|^2 d\Omega, \qquad u\big|_s = 0, \right.$$

s -- boundary of the region Ω) which was generalized by the author to
the case of complex functions u is used for the proof.

[Abstracter's note: The above text is a full translation of the original
Soviet abstract.]

Card 1/1

ZUL'FUGAROV, Z.G.; PARFENOVA, T.S.; DZHAFARLI, R.M.; RUSETSKAYA, Ye.A.;
    POGOSOV, A.G.

    Wine clarification with bentonite gilyabi clays from Shemakha
    and Geokmaly deposits in Azerbaijan. Trudy Inst. khim. AN Azerb.
    SSR 16:27-39 '57.   (MIRA 12:9)
            (Azerbaijan--Bentonite) (Wine and wine making)

RASULOVA, S.M.; KHALILOVA, N.G.; DZHAFARLI, R.M.; MURADOVA, S.A.; ZUL'FUGAROV, Z.G.

Investigation of means of increasing stable activity of the cracking catalyst "khanlarit" [in Azerbaijani with summary in Russian]. Izv. AN Azerb. SSR. Ser. fiz.-tekh. i khim. nauk no.5:81-95 '58.   (MIRA 12:1)
            (Cracking process) (Catalysts)

DZHAFARLY, Z.A.

BABAYEV, M.B.; DZHAFARLY, Z.A.

Present status of the Azerbaijan gas industry and prospects
for its development. Azerb.neft.khoz. 36 no.11:25-27 N '57.

(MIRA 11:2)

(Azerbaijan--Gas, Natural)

DZHAFARLY, Z. A.

DZHAFAROV, A. A.

21858   DZHAFAROV, A. A.   Vrediteli zernovykh kul'tur iz mira nasekomykh
v rayonakh nakhichevanskoy ASSR. Doklady (Akad nauk azerbaydzh. SSR),
1949, No. 5, s. 215-220. - Rezyume na azerbaydzh. yaz. - Bibliogr:
6 nazv.

SO: Letopis' Zhurnal'nykh Statey, No. 29, Moskva, 1949

BABGRAMYAN, M.G., TROFIMOV, G.K., NADZHAFOV, A.Yu., KASIMOV, A.A., DZHAFAROV, A.A.
KEVELIYEV, T.Kh.

Geographic malariological study in Azerbaijan as a basis for rational
antimalarial measures during a rapid decrease in the incidence of
malaria. Report No.1 [with summary in English]. Med.paraz. i paraz.
bol. 27 no.3:278-283 My-Je '58   (MIRA 11:7)

1. Iz Instituta malyarii i meditsinskoy parazitologii Ministerstva
zdravookhraneniya AzerSSR (dir. instituta A.A. Kasimov).
            (MALARIA, prevention and control
                geographic survey as indic. for control in rapid decrease
                (Rus))

.USSR / General and Special Zoology. Insects.   P

Abs Jour: Ref Zhur-Biol., No 4, 1958, 16400

Author   : Dzhafarov A.A.
Inst   : Not given.
Title   : The Purple Scale Insect Porphyrophora tritici
           Bod. as a Pest of the Grain Cultures in Nakhichevan
           of the Azerbaydzhan Soviet Socialist Republic.
           (Purpurnyi chervets Porphyrophoro tritici Bod.
           kak vreditel' zernovykh.kul'tur v Nakhichevanskoi
           ASSR.)

Orig Pub: Izv. AN AzerbSSR, 1956, No11, 83-90

Abstract: Porphyrophora tritici was found on crops of young
          winter wheat only in three villages of the Dzhul-
          fin rayon. The larvae were developed from hiber-
          nating eggs when the soil temperature at a depth
          of 10-15 cm reached 10-12 degrees. They passed

Card 1/3

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DZHAFAROV, A.A. (Baku); ZAVEL'SKIY, D.Ya. (Baku); SHTURMIN, V.G.; BADAL'YANTS.

Using gas in steam and diesel locomotives. Zhel. dor. transp. 40
no.2:45-51 F '58.   (MIRA 11:3)

1. Nachal'nik Azerbaydzhanskoy zheleznoy dorogi (for Dzhafarov).
2. Nachal'nik otdela motorno-rel'sovogo transporta Azerbaydzhanskoy
zheleznoy dorogi (for Zavel'skiy). 3. Nachal'nik tekhnicheskogo
otdela Severo-Kavkazskoy dorogi (for Shturmin). 4. Nachal'nik
tekhnicheskogo byuro Krasnodarskogo otdeleniya Severo-Kavkazskoy
dorogi (for Badal'yants).
                        (Locomotives)   (Gas as fuel)

ABDULLAYEV, Kh.I.; BAGRAMYAN, M.G.; DZHAFAROV, A.A.

Organization of control over laboratory malaria diagnosis in Azerbaijan. Med.paraz. i paraz.bol. 28 no.3:327-328 My-Je '59.
(MIRA 12:9)

1. Iz Instituta malyarii meditsinskoy parazitologii Ministerstva zdravookhraneniya Azerbaydzhanskoy SSR.
(MALARIA, diag.
standard. in Russia (Rus))

DZHAFAROV, A.A.

Cases of quartan malaria in the Kuba District of Azerbaijan in
1963. Med.paraz. i paraz.bol. 33 no.3:317-318 My-Je '64.

(MIRA 18:2)

1. Nauchno-issledovatel'skiy institut meditsinskoy parazitologii
i tropicheskoy meditsiny Ministerstva zdravookhraneniya
Azerbaydzhanskoy SSR imeni Kirova, Baku.

DZHAFAROV, A.A.

AYRUMOV, A.M.; DZHAFAROV, A.A.; KHARIK, V.F.; TITSKAYA, B.F., vedushchiy
redaktor; POLOSINA, A.S., tekhnicheskiy redaktor

[Grab tools and devices used in the operation and general overhaul
of oil wells] Lovil'nye instrumenty i prisposobleniia, primeniaemye
pri ekspluatatsii i kapital'nom remonte neftianykh skvazhin.
Moskva, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi
lit-ry, 1954. 75 p. [Microfilm]   (MLRA 7:10)
      (Petroleum--Well repair)

DZHAFAROV, A.A.

Modernized disengaging casing spear. Azerb.neft.khoz. 35 no.10:22-
23 O '56.   (MLRA 10:1)
          (Oil well drilling--Equipment and supplies)

DZHAFAROV, A.A.

Mineralogical characteristics of rocks in the Erivan salt-
bearing region. Trudy Arm.geol.upr. no.1:103-108 '57.
(MIRA 12:1)

(Erivan region--Mineralogy, Determinative)

DZHAFAROV, A. A.

New design of deflectors used in drilling oil well second shafts.
Azerb. neft. khoz. 36 no.10:27-28 O '57.   (MIRA 11:2)
        (Oil well drilling--Equipment and supplies)

DZHAFAROV, A.A.; DOKUMENTOV, V.I.

Cutting a window in the production casing when drilling the
second hole of a well. Neft. khoz. 41 no.7:63-66 Jl'63
(MIRA 17:1)

DZHAFAROV, A.A.

Some problems of the geology of oil fields in the southeastern
part of the Apsheron Archipelago. Dokl. AN Azerb. SSR 21
no.7:23-27 '65.   (MIRA 18:12)

1. Neftepromyslovoye upravleniye imeni XXII s"yezda
Kommunisticheskoy partii Sovetskogo Soyuza. Submitted
April 24, 1965.

DZHAFAROV, A. D.: Master Med Sci (diss) -- "The functional state of the kidneys
and liver in brucellosis". Tashkent, 1959.   20 pp (Tashkent State Med Inst),
300 copies (KL, No 13, 1959, 111)

IZHAFAROV, A.D.; GANIYEV. U.G.; NEVSKIY. M.V.

State of the cardiovascular system in some infectious diseases.
Sbor.nauch.trud.   TMI 22:83-86 '62.

(MIRA 18:10)

1. Kafedra infektsionnykh bolezney (zav. kafedroy - prof. T.Kh.
Nadzhmiddinov) Tashkentskogo gosudarstvennogo meditsinskogo
instituta.

DZHAFAROV, A.D.; DZHALILOV, K.D.

State of some liver functions in patients with brucellosis treated
with antibiotics. Sbor.nauch.trud.TashGMI 22:164-169 '62.

(MIRA 18:10)

1. Kafedra infektsionnykh bolezney lechebnogo fakul'teta (zav.
kafedroy - zasluzhennyy deyatel' nauki UzSSR, doktor med.nauk prof.
T.Kh.Nadzhmiddinov) Tashkentskogo gosudarstvennogo meditsinskogo
instituta.

NADZHIMIDDINOV, T.Kh., prof.; DZHAFAROV, A.D., kand. med. nauk, assistent; TSIPKINA, S.V., ordinator

Outbreak of trichinosis in the Uzbek S. S. R. following eating the meat of a wild boar. Sov. med. 28 no.9:136-138 S '65.

(MIRA 18:9)

1. Klinika infektsionnykh bolezney (dir. - prof. T.Kh.Nadzhimiddinov) Tashkentskogo meditsinskogo instituta.

DZHAFAROV, A.D., kand.med.nauk

Meritorious scientist of the Uzbek S.S.R., Professor Tursun
Khodzhaevich Nadzhmiddinov; on his 60th birthday. Med. zhur.
Uzb. no.1:94-95 Ja '62.   (MIRA 15:3)
(NADZHMIDDINOV, TURSUN KHODZHAEVICH, 1911-1961)

DZHALILOV, K.D., kand. med. nauk; DZHAFAROV, A.D., kand. med. nauk;
    NADZHMIDDINOV, T.Kh., prof., zasl. deyatel' nauki UzSSR,doktor
    med. nauk, otv. red.; LYUBETSKAYA, R.Kh., red.; GOR'KOVAYA,
    Z.P., tekhn. red.

[Problems of the diagnosis and treatment of brucellosis] Vop-
rosy diagnostiki i lecheniia brutselleza. Tashkent, Akad.
nauk Uzbekskoi SSR, 1963. 110 p.   (MIRA 16:7)
                    (BRUCELLOSIS)

DZHAFAROV, A. F.

DZHAFAROV, A. F.

    "The Influence of Certain Injuries of Apples on Their Preservation."
Cand Tech Sci, Moscow Inst of National Economy imeni G. V. Plekhanov

Survey of Scientific and Technical Dissertations Defended at USSR Higher
Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55

USSR/General and Special Zoology. Insects. Insect   P
    and Mite Pests. Fruit and Berry Crop Pests.

Abs Jour : Ref Zhur-Biol., No 20, 1958, 99234

Author   : Dzhafarov, A. F.
Inst   : -
Title   : The Effect of Damage Caused by the Codling
           Moth on the Quality and Storage of Apples.

Orig Pub : Sad i ogorod, 1957, No 11, 34-37

Abstract : More than 500 kg of different varieties of
           apples were shipped to Moscow from Azerbay-
           dzhan. The shipment consisted of healthy ap-
           ples and apples which did not have more than
           two scarred blemishes resulting from damage
           caused by the codling moth. The apples were
           stored from 15 October to 31 March at 1°
           and humidity of 90 percent. At the end of

Card   : 1/3

USSR/General and Special Zoology. Insects. Insect   P
    and Mite Pests. Fruit and Berry Crop Pests.

Abs Jour : Ref Zhur-Biol., No 20, 1958, 92234

                March, 30.3 percent of the apples had
                apple rot (among the healthy apples 1
                and 4.2 percent). Eight percent were withe-
                red (among the healthy apples 1.4 percent).
                The incidence of physiological scald in the
                fruit damaged by the codling moth was one
                half that of the healthy apples. Apparently,
                a certain amount of volatile substances (ace-
                taldehyde of alcohol, etc.) which produces
                burns on the skin, freely leaves the fruit
                through the scarred passages in the pulp
                of the fruit. During the 5 months of sto-
                rage, the damaged fruit of different varie-
                ties lost on an average 9.2 percent in weight,

Card   : 2/3

USSR/General and Special Zoology. Insects. Insect   I
    and Mite Pests. Fruit and Berry Crop Pests.

Abs Jour : Ref Zhur-Biol., No 20, 1958, 92234

        50 percent of acids, 32 percent of the
        aggregate amount of sugar, 75 percent of
        saccharose. The healthy apples lost respec-
        tively 4.25, 10, and 34 percent. The quality
        of the damaged fruit had already become in-
        ferior after 2 months of storage. -- A. I.
        Adrianov

Card   : 3/3

ANTONOV, Mikhail Vasil'yevich; DZHAFAROV, Abdulla Fataliyevich;
    VOLKOV, Yevgeniy Nikitich; SABUROV, N.V., prof., retsenzent;
    SKROBANSKIY, G,G., prof., retsenzent; RUKOSUYEV , A.N., red.;
    SINEL'NIKOVA, TS.B., red.; AYRIYEVA, N.S., red.; TERYUSHIN,
    M.I., tekhn. red.

[Commercial guide to food products; vegetables and fruit]Tovaro-
vedenie prodovol'stvennykh tovarov; ovoshchi i plody. Pod red.
A.N.Rukosueva. Moskva, Gostorgizdat, 1962. 400 p.
                                              (MIRA 16:1)

    (Vegetables) (Fruit)

DZHAFAROV, Abdulla Fataliyevich; AYRIYEVA, N.S., red.

    [Rare vegetables] Malorasprostranennye ovoshchi. Mo-
skva, Ekonomika, 1964. 75 p.   (MIRA 18:1)

EWT(1)/EEC(m)/EWA(h)   Peb

32795
S/137/61/000/012/092/149
A006/A101

| 2300   1573

AUTHOR: Dzhafarov, A. M.

TITLE: Ghost formation in resistance butt welding

PERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 12, 1961, 5, abstract 12E28
("Azerb. neft. kh-vo", 1961, no. 3, 41 - 45)

TEXT: The author studied the properties and composition of the metal of
ghosts formed during resistance-butt welding, and their effect on the strength of
the weld metal. Grade 15, 20, 25, 30, 35, 40 and 45 steel specimens of 22 mm in
diameter and 200 mm length were used. Resistance and flash welding was performed
on an ACH -25 (ASN-25) machine. Results of metallographical, chemical and
spectral analysis of the specimens, microhardness and tension tests, lead to the
following conclusions: 1. Ghosts are the results of decarbonization, caused by
the prevalent fusion of carbon-enriched areas owing to rising diffusion. 2. With
a higher C content in the welded steels, the maximum width of the ghost increases
first (up to 0.27% C) and then decreases; the duration of heating, to obtain its
maximum width, decreases too. 3. The metal of the ghost consists mainly of fer-
rite, with different degrees of Si-alloying, as compared to the base metal.

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Ghost formation in resistance butt welding

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A006/A101

4. The strength of the ghost depends on the conditions of welding for the given steel grade; it increases with higher current density and longer duration of its passage. 5. The effect of the ghost on the weld metal strength depends on its width and the heating rate, at which it arises. At 1 mm width of the ghost, the strength of the joint does not decrease, if the heating rate during welding is > 250 degrees/sec. A further increase of the ghost width (> 1 mm) reduces the strength of the weld metal. 6. Best results in respect to strength are obtained at a heating rate of 250 - 300 degrees/sec. There are 22 references.

V. Tarisova

[Abstracter's note: Complete translation]

Card 2/2

DZHAFAROV, A.M.

Effect of a light-colored strip on the strength of metal seams in resistance-butt welding. Izv. vys. ucheb. zav.; neft i gaz no.8:115-119 '58.   (MIRA 11:10)

1.Azerbay dzhanskiy industrial'nyy institut im. M. Azizbekova.
                (Pipelines—Welding)

KOSTIN, B.A., inzh.; DZHAFAROV, A.M., inzh.

Mechanizing the cleaning of oil field containers. Bezop. truda v
prom. 5 no. 5:20-21 My '61.   (MIRA 14:5)
              (Oil fields—Equipment and supplies)

DZHAFAROV, A.M.

Formation of a segregation line in resistance-butt welding. Azerb.
nefti. khoz. 40 no. 3:41-45 Mr '61.   (MIRA 14:5)
                       (Electric welding--Defects)

DZHAFAROV, A.M.

Hydromechanical removal of sediment from sand traps. Trudy
VNIITB no.13:61-65 '60.   (MIRA 14:12)
              (Oil wells—Equipment and supplies)

DZHAFAROV, A.M.

Effect of the shape of conjugated surfaces on the structure
and properties of seam metal in case of a resistance butt
welding. Za tekh. prog. 3 no.7:20-22 Jl '63.   (MIRA 16:12)

DZHAFAROV, A.M.

Change in the structure and composition of seams in resistance-butt
welding. Izv. vys. uchob. zav.; neft' i gaz 6 no.2:105-109 '63.
(MIRA 16:5)

1. Azerbaydzhanskiy politekhnicheskiy institut.
(Electric welding)

DZHAFAROV, A.M.; AKHMEDOV, B.M.

Heat treating of low alloy pipe steels. Metalloved. i term.
obr. met. no.12:15-17 D '64   (MIRA 18:2)

1. Azerbaydzhanskiy politekhnicheskiy institut i Azerbaydzhan-
skiy nauchno-issledovatel'skiy institut neftyanogo mashino-
stroyeniya.

DZHAFAROV, A.M.

Problem of the kinetics of the formation of a light streak in resistance butt welding of alloyed steels. Sbor.nauch.-tekh. inform.Azerb.inst.nauch.-tekh.inform.Ser.Mashinostroi. no.1:26-37 '62. (MIRA 18:8)

1. Azerbaydzhanskiy politekhnicheskiy institut.

DZHAFAROV, A.S.

DZHAFAROV, A.S. -- "The Technology of Construction." Min Construction
     Materials Industry Azerbaydzhan SSR. Azerbaydzhan Sci R s Inst of
     Construction Materials and Structures imeni S.D. Dadashev, Baku,
     1955
     (Dissertation for the Degree of Candidate in Technical Sciences).

SO: Knizhnaya Letop s', No 9, 1956

DZHAFAROV, Akif, Geroy Sotsialisticheskogo Truda

Outdistancing time. Sov.profsoiuzy 17 no.10:25 My '61.
(MIRA 14:5)

1. Master neftepromyslovogo upravleniya "Gyurgyanneft'."
(Neftyannye Kamni—Petroleum industry)
(Socialist competition)

DZHAFAROV, A.S.

Imbedding theorems in norms of L_p, γ space. Izv. AN Azerb. SSR. Ser. fiz.-mat. i tekh. nauk no.1:81-88 '63.

(MIRA 16:7)

(Functions of real variables)
(Spaces, Generalized)

DZHAFAROV, A. J.

Dissertation: -- "The Best Approximations in the Mean of Functions of Several
Variables by Means of Entire Functions of Finite Degree and Polynomials."
Cand Phys-Math Sci, Azerbaydzhan State Pedagogical Inst, Baku, 1954.
(Referativnyy Zhurnal--Mekhanika, Moscow, Jun 54)

SO: Sum 313, 23 Dec. 1954

OZHAFAROV A. S.

44-1-330

TRANSLATION FROM: Referativnyy Zhurnal, Matematika, 1957, Nr 1,
                  p. 51 (USSR)

AUTHOR: Dzhafarov, A. S.

TITLE: On the Best Mean Approximation of Functions of
               Many Variables With the Aid of Entire Functions
               of Finite Order (O nailuchshem priblizhenii v
               srednem funktsiy mnogikh peremennykh pri
               pomoshchi tselykh funktsiy konechnoy stepeni)

PERIODICAL: Tr.Azerb. gos. ped.in-ta, 1955, 2, pp. 110-116

ABSTRACT: The space $M^{(m)}L_p^{(n-m)}$ of functions which are de-
     fined and measurable on R_n, with the finite norm
$$\|f\|_p^{(n,n-m)} = \sup_{(x_1\ldots x_m)} \left(\int_{-\infty}^{\infty}\cdots\int_{-\infty}^{\infty} |f(x_1,\ldots,x_n)|^p dx_{m+1}\cdots dx_n \right)^{1/p}$$
     is investigated. With the aid of existing reasoning it is pos-
     sible to evaluate the best approximation in the space ν
     $M^{(m)}L_p^{(n-m)}$ by means of entire functions of finite order through
     the modulus of continuity. Basic result: If partial derivatives
     of function $f(x,\ldots x_n)$ are

Card 1/2 $\partial^{\alpha_i} f / \partial x_i^{\alpha_i} \in M^{(m)}L_p^{(n-m)} \quad (i=1,\ldots,n)$

44-1-330

On the Best Mean Approximation of Functions of Many Variables (Cont.)

where $z_i \geq 0$ and integers, then

$$A_{v_1,\ldots,v_n}(f)_p^{(n,n-m)} \leq C \sum_{i=1}^{n} \frac{1}{v_i^{z_i}} \omega_{x_i z_i}^{(n,n-m)}\left(\frac{1}{v_i}, \frac{\partial^{z_i} f}{\partial x_i}\right)$$

(C is independent of $v_1, \ldots, v_n$) where

$$A_{v_1,\ldots,v_n}(f)_p^{(n,n-m)} = \inf_{q_{v_1,\ldots,v_n}} \|f - g_{v_1,\ldots,v_n}\|_p^{(n,n-m)}, \quad \omega_{x_i z_i}^{(n,n-m)}(\delta,f)_p = \sup_{|h|\leq\delta} \|\Delta_{h x_i}^k f\|_p^{(n)}$$

This result is the generalization of corresponding results of S.N. Bernshteyn, N.I. Akhiyezer, S.M. Nikol'skiy. S.B. Stechkin. Reviewer's note: Statement 3 (section 1) is incorrect, but it is not used further on.

Card 2/2

O. V. Besov

DZHAFAROV A.S.

44-1-323

Translation from: Referativnyy Zhurnal, Matematika, 1957, Nr 1, p. 50 (USSR)

AUTHOR: Dzhafarov, A. S.

TITLE: On the Best Mean Quadratic Approximation of Periodic Functions With Many Variables by Trigonometric Polynomials (O srednekvadraticheskom nailuchshem priblizhenii periodicheskikh funtskiy mnogikh peremennykh posredstvom trigonometricheskikh mnogochlenov)

PERIODICAL: Tr. Azerb. gos. ped. in-ta, 1955, 2, pp. 159-162

ABSTRACT: The class of functions $f(x_1, x_2, \ldots, x_n)$ 2π — periodic for every argument, is investigated, these functions being multiple integrals of the order $(r_1, \ldots, r_n)$ of the function $\varphi(t_1, t_2, \ldots, t_n) \in L_2$ in the sense of Weil. The author determines the exact upper bound of deviations in the metric L_2

Card 1/2

44-1-323

On the Best Mean Quadratic Approximation of Periodic Functions (Cont.)

from Fourier sums of the order ($m_1, \cdots, m_n$) of the mentioned functions. If function φ changes so that $\| \varphi \| \le K$, then the above-mentioned upper bound is equal to::

$$ K \left[\sum_{s=1}^{n} (m_s + 1)^{-2} \, \overline{\xi} \right]^{1/2} $$

misprints.

. The article contains many

I. P. Natanson.

Card 2/2

DZHAFAROV, A.S.

Imbedding theory for one class of functions of several variables [in Azerbaijani with summary in Russian]. Izv. AN Azerb. SSR. Ser. fiz.-tekh. i khim. nauk no.1:35-45 '59.   (MIRA 12:6)
                        (Functions)

DZHAFAROV, A.S.

Imbedding theorems for a class of functions of several variables
[in Azerbaijani with summary in Russian]. Izv. AN Azerb. SSR.
Ser. fiz. tekh. i khim. nauk no.2:3-11 '59.   (MIRA 12:8)
(Functions of several variables)

DZHAFAROV, A.S.

Weighted and optimal uniform approximation of funtions by means of polynomials. Dokl.AN Azerb.SSR 15 no.6:459-462 '59.
(MIRA 12:9)

(Approximation computation)

16(1)   SOV/20-128-3-5/58

AUTHOR: Dzhafarov, A.S.

TITLE: Some Properties of n-Harmonic Functions

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 3, pp 454-455 (USSR)

ABSTRACT: An n-harmonic function is a function $u(\varsigma_1, \theta_1; \ldots; \varsigma_n, \theta_n)$
             which is harmonic with reference to the pairs of variables
             ς_i, θ_i, $i = 1, \ldots, n$, for fixed remaining variables. Let $L_p^{(N)}(G)$
             be the class of the measurable functions $f(x_1, \ldots, x_N)$ which
             are integrable in G in p-th power. If f is 2π-periodic in
             all variables and $G = \{0 \leqslant x_s \leqslant 2\pi, \ s = 1, \ldots, N\}$, then the
             notation $L_p^{*(N)}$ will be used instead of $L_p^{(N)}(G)$. Let $\|f\|_{p,G}^{(N)}$
             be the norm of f. Let $G' \subset G$ and $\Delta_{hx_s}^k \varphi$ be the k-th differ-
             ence of the function φ in the variable x_s for the step h.
             Then let

(1) $$\omega_{kx_s}(\delta, \varphi)_{p,G} = \sup_{G', |h| \leqslant \delta} \|\Delta_{hx_s}^k \varphi\|_{p,G'}^{(N)}.$$

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SOV/20-128-3-5/56

Some Properties of n-Harmonic Functions

If φ is 2π-periodic in x_s and $G = \left\{ 0 \leqslant x_s \leqslant 2\pi,\ s = 1, \ldots, N \right\}$, then let $\omega_{kx_s}(\delta, \varphi)_{p,N}$ be written. Let furthermore $D = \left[0 \leqslant \varphi_i < 1;\ 0 \leqslant \theta_i \leqslant 2\pi,\ i = 1, \ldots, N \right]$ and let α_i denote an arbitrary variable φ_i, θ_i.

Theorem: Let $f(t_1, \ldots, t_n)$ and all $\dfrac{\partial^{r_i} f}{\partial t_i^{r_i}}$, $i = 1, \ldots, n$ belong to $L_p^{*(n)}$. Let the n-harmonic function $u(\varphi_1, \theta_1, \ldots, \varphi_n, \theta_n)$ in D satisfy the condition $u\big|_{\varphi_s = 1, s = 1, \ldots, n} = f(\theta_1, \ldots, \theta_n)$. Then for natural $q_1, \ldots, q_n$ and $m \leqslant \delta^{-1}$ ($0 < \delta \leqslant \delta_0 < 1$), $\beta_s = r_s - 1$ it holds:

1) $\omega_{q_s \alpha_s}(\delta, u)_{p,D} \leqslant cm^{-q_s} \sum_{\nu=1}^{m} \nu^{q_s - \beta_s - \frac{1}{p}} \omega_{k_s t_s}^{*}\left(\frac{1}{\nu}, f_{t_s}^{(r_s)} \right)_{p,n}$

Card 2/4

Some Properties of n-Harmonic Functions   SOV/20-128-3-5/58

2) If furthermore $\sum_{m=1}^{\infty} m^{\lambda_s - \beta_s - \frac{1}{p}} \omega^{*}_{k_s t_s}(\frac{1}{m}, f^{(r_s)}_{t_s})_{p,n}$

converges for natural λ_s, then it is

$$\omega_{q_s \alpha_s}(\delta, u^{(\lambda_s)}_{\alpha_s})_{p,D} \leqslant c \left\{ m^{-q_s} \sum_{\nu=1}^{m} \nu^{q_s + \lambda_s - \beta_s - \frac{1}{p}} \omega^{*}_{k_s t_s}(\frac{1}{\nu}, f^{(r_s)}_{t_s})_{p,n} + \right.$$

$$\left. + \sum_{\nu=m+1}^{\infty} \nu^{\lambda_s - \beta_s - \frac{1}{p}} \omega^{*}_{k_s t_s}(\frac{1}{\nu}, f^{(r_s)}_{t_s})_{p,n} \right\},$$

where c does not depend on m.

Theorem 2 treats the case, where it is still $\int_{0}^{2\pi} f(t_1, \ldots, t_n) dt_1 = 0$

besides the assumptions of theorem 1.

S.M.Nikol'skiy, Ya.S.Bugrov, V.M.Babich and L.N.Slobodetskiy are mentioned by the author.

Card 3/4

Some Properties of n-Harmonic Functions   SOV/20-128-3-5/58

There are 10 Soviet references.

ASSOCIATION: Institut fiziki i matematiki AN Azerb SSR (Institute of
Physics and Mathematics AS Azerbaydzhan SSR)

PRESENTED: May 27, 1959, by S.L.Sobolev, Academician

SUBMITTED: May 23, 1959

Card 4/4

DZHAFAROV, A.S.

On a Dirichlet problem for a half-space. Izv. AN Azerb. SSR. Ser.
fiz.-mat. i tekh. nauk no.5:3-11 '59.   (MIRA 13:3)
          (Harmonic functions)

DZHAFAROV, A.S.

Some inequalities for entire functions of finite degree. Izv.vys.
ucheb.zav.; mat. no.1:103-115 '60.   (MIRA 13:6)

1. Azerbaydzhanskiy gosudarstvennyy pedagogicheskiy institut imeni
V.I.Lenina.
            (Inequalities)   (Functions, Entire)

22414
S/044/61/000/001/001/013
C111/C222

16.4100

AUTHOR: Dzhafarov, A.S.

TITLE: On the order of the best approximation in the mean of
            functions of several variables by entire function of finite
            degree

PERIODICAL: Referativnyy zhurnal, Matematika, no. 1, 1961, 7,
            abstract 1B 23 ("Tr.Azərb.gos.ped.in-ta", 1959, 8, 97-107)

TEXT: The author proves some reversion theorems on the best
approximation of functions of several variables by entire functions of
finite degree. He gives necessary and sufficient conditions that the best
approximation of a function of several variables by entire functions
of finite degree tends to zero with a certain order. Let k be a natural
number. It is said that $\varphi(\delta)$ $(\varphi(0) = 0)$ is a comparison function of
k-th order if it is defined on a certain interval $[0,b]$, if it does not
decrease, if it tends to zero for $\delta \to 0$ and for sufficiently small δ it
satisfies the inequality $\varphi(\delta) \geqslant c\,\delta^k > 0$, where c does not depend on δ.

The function $f(x_1,\dots,x_n)$ belongs to the class $E_{kx_s}^{(n,n-m)}[\varphi;M]_p$ if for

the M which is independent of δ it holds

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22414

On the order of the best approximation... S/044/61/000/001/001/013
C111/C222

$$\omega_{kx_s}^{(n,n-m)}(\delta,f)_p \leq M\varphi(\delta), \quad 0 \leq \delta \leq b,$$

where $\varphi(\delta)$ -- comparison function of k-th order. According to the definition it holds

$$f(x_1,\ldots,x_n) \in H_{k_1,\ldots,k_n}^{(n,n-m)} \left[\varphi_1,\ldots,\varphi_n; M_1,\ldots,M_n\right]_p$$

if simultaneously it belongs to the classes

$$H_{k_1x_1}^{(n,n-m)} \left[\varphi_1;M_1\right]_p,\ldots,H_{k_nx_n}^{(n,n-m)} \left[\varphi_n;M_n\right]_p .$$

Let furthermore $\alpha > 0$ and $k = -[-\alpha]$. It is said that $\varphi(\delta)$ $(0 \leq \delta \leq b)$ belongs to the class N^α if $\varphi(\delta)$ is a comparison function of k-th order, and if there exists a constant $C > 0$ so that for $0 < \delta < \eta \leq b$ it holds:

$\eta^{-\alpha} \varphi(\eta) \leq c \delta^{-\alpha} \varphi(\delta)$. The principal results of the paper are contained in two theorems: Theorem 3. Let $k_1,\ldots,k_n$ be natural numbers, $0 < \alpha_s < k_s$ and $\varphi_s \in N^{\alpha_s}$ $(s=1,2,\ldots,n)$. If

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On the order of the best approximation... 22411;

S/044/61/000/001/001/013
C111/C222

$$A_{v_1,\ldots,v_n}(f)^{(n,n-m)}_p \leq \sum_{s=1}^{n} M_s \varphi_s\left(\frac{1}{v_s+1}\right), \quad v_s \geq 1$$

then it holds

$$f \in H^{(n,n-m)}_{k_1,\ldots,k_n}[\varphi_1,\ldots,\varphi_n; C_1(M_1+\|f\|^{(n,n-m)}_p),\ldots C_n(M_n+\|f\|^{(n,n-m)}_p)]_p,$$

where $C_1,\ldots,C_n$ do not depend on f. Theorem 6: Let $\varphi_i \in N^{\alpha_i}$ $(i=1,\ldots,n)$.
In order that

$$A_{v_1,\ldots,v_n}(f)^{(n,n-m)}_p \sim \sum_{i=1}^{n} \varphi_i\left(\frac{1}{v_i+1}\right)$$

it is necessary that for every natural $k_i > \alpha_i$ $(i=1,\ldots,n)$ and sufficient
that for a certain $k_i > \alpha_i$ $(i=1,\ldots,n)$ the following condition is
satisfied:

$$\omega^{(n,n-m)}_{k_i x_i}(\delta,f)_p \sim \varphi_i(\delta) \qquad (i=1,\ldots,n).$$

For the definition of $\|f\|^{(n,n-m)}_p$, $\omega^{(n,n-m)}_{kx_i}(\delta,f)_p, A_{v_1,\ldots,v_n}(f)^{(n,n-m)}_p$
cf. R.Zh.Mat, 1957, 330.
[Abstractor's note: Complete translation.]
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